

FILE 'MEDLINE' ENTERED AT 09:26:30 ON 24 FEB 2003

L1        8543 S HIV ANTIBOD?  
L2        753494 S DETECT?  
L3        1530 S TEST(W) STRIP? OR DIPSTICK  
L4        5 S L1 AND L2 AND L3

L Number	Hits	Search Text	DB	Time stamp
2	427	(HIV adj antibody or HIV adj antibodies) with detect\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/02/24 08:24
4	3045	dipstick	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/02/24 08:29
5	11	((HIV adj antibody or HIV adj antibodies) with detect\$3) and ( dipstick )	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/02/24 08:26
6	10579	dipstick or test adj strip	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/02/24 08:30
7	33	((HIV adj antibody or HIV adj antibodies) with detect\$3) and ( dipstick or test adj strip )	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/02/24 08:30
8	2084	tetramethylbenzidine	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/02/24 08:31
9	1596	urea adj peroxide	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/02/24 08:31
10	33	tetramethylbenzidine and (urea adj peroxide)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/02/24 08:31
11	1	(((HIV adj antibody or HIV adj antibodies) with detect\$3) and ( dipstick or test adj strip )) and (tetramethylbenzidine and (urea adj peroxide))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/02/24 08:31
12	2	((HIV adj antibody or HIV adj antibodies) with detect\$3) and (tetramethylbenzidine and (urea adj peroxide))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/02/24 08:31

L4 ANSWER 2 OF 5 MEDLINE  
ACCESSION NUMBER: 97171032 MEDLINE  
DOCUMENT NUMBER: 97171032 PubMed ID: 9018305  
TITLE: An evaluation of **dipstick**-dot immunoassay in the  
**detection** of antibodies to HIV-1 and 2 in Zimbabwe.  
AUTHOR: Ray C S; Mason P R; Smith H; Rogers L; Tobaiwa O;  
Katzenstein D A  
CORPORATE SOURCE: Zimbabwe AIDS Prevention Project, University of Zimbabwe,  
Harare, Zimbabwe.  
CONTRACT NUMBER: AI-33868-02 (NIAID)  
SOURCE: TROPICAL MEDICINE AND INTERNATIONAL HEALTH, (1997 Jan) 2  
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AB There is a need, in many developing countries, for simple and inexpensive HIV serology tests for use at the district level of health care. The Programme for Appropriate Technology in Health has developed a simple **dipstick** ELISA to detect antibodies to HIV-1 and 2, at a cost considerably lower than current ELISAs, which requires no specialized washing or reading equipment. In order to evaluate this **dipstick** under local conditions we used a panel of 546 sera selected from frozen stocks maintained by the Zimbabwe AIDS Prevention Project in Harare, Zimbabwe. Prior to storage, the sera had been tested by Abbott recombinant peptide HIV-1 and 2 ELISA and Enzygnost synthetic peptide HIV-1 and 2 ELISA. The panel included sera that were positive by both (including symptomatics and asymptomatics), negative by both, and sera showing discrepant test results. The panel was not representative of a "normal" batch of sera in Zimbabwe, and in particular included an abnormally high number of sera showing discrepant results. Thawed sera were retested using the Abbott recombinant peptide HIV-1 and 2 ELISA and concurrently with the synthetic peptide ICL-**Dipstick** ELISA. Both the sensitivity and specificity of the ICL **Dipstick** exceeded 99% when using sera that were positive or negative in all 3 plate ELISAs as the gold standard. When using sera that gave discrepant results between the two pre-storage ELISAs, most results with the ICL **Dipstick** concurred with findings from other test systems, including Western blot and p24 antigen detection. Considering the accuracy, low cost and ease of operation of the ICL **Dipstick** ELISA, this test can be recommended for use for the rapid **detection** of antibodies to HIV at district level in developing countries.